



RACK MOUNT MS00810P55B
80~1000MHz
300 WATTS
WIDE BAND POWER AMPLIFIER SUBSYSTEM

Advantages:

- Operating Frequency :80~1000MHz
- Power Gain:55dB Typical
- Psat:300W Typical
- Supply Voltage:+220VAC
- 50 Ohms Input and Output Matched

ELECTRICAL SPECIFICATIONS @ +220VAC, 25°C, 50Ω

Parameter	Symbol	Min	Typ	Max	Units
Operating Frequency	BW	80		1000	MHz
RF Output Power @Pin=0dBm	PSAT		300		Watt
Power Gain	Gp		55		dB
Input Return Loss	S11			-10	dB
Harmonics @Pout=150W	H		-10		dBc
Spurious Signals	Spur		-55		dBc
Operating Voltage (Single-phase)	VAC		220		Volt
Power Consumption @300W CW	Pd		4200		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Notes
Dimensions (W x H x D) – Bench Top/Rack Mount	Power Amplifier Chassis:482.6 x 221.5 x 545mm (5U) Power Supply Chassis:482.6 x 88x 445 mm (2U)	Maximum
Weight	50kg [110lbs]	Maximum
RF Connectors Input	Type-N, Female	
RF Connectors Output	Type-N, Female	
Cooling	Built-in internal forced air-cooling system	

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Minimum	Typical	Maximum	Units	Notes
Operating Ambient Temperature	-20		50	°C	
Non-operating Temperature	-45		85	°C	Storage
Relative Humidity (non-condensing)			95	%	

ABSOLUTE MAXIMUM RATING

Input RF drive level without damage	+5 dBm (Max)
VSWR Protection@150W	3:1 @ PA output power will degrade to a safe operation level, and system will still work. >3:1 @ protection will make system shutdown.
Thermal Overload	Power will Gracefully Degrade, when Ambient Temp >85°C



AVAILABLE OPTIONS (Selected options refer to the factory)

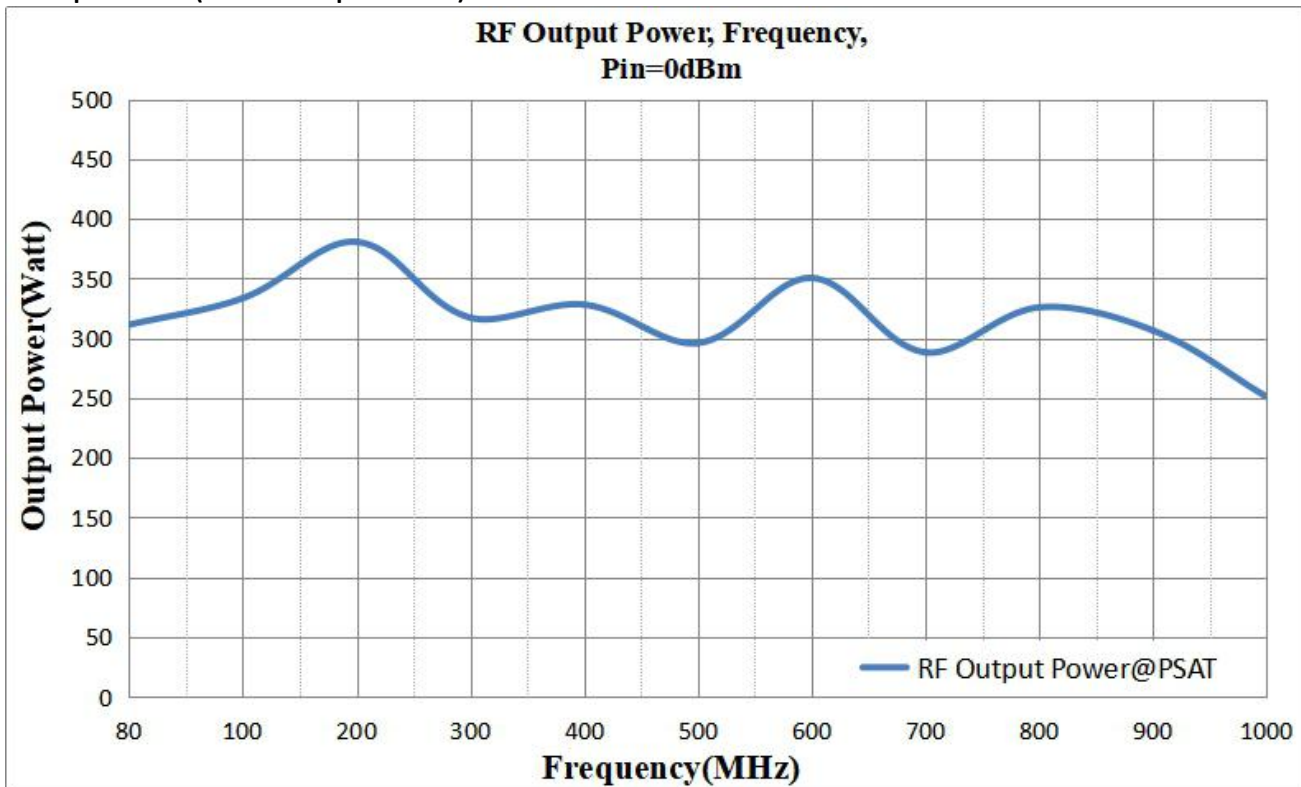
Name	Description	LCD
Status Monitor	LCD Controller	Digital Display, including FWD/REV Power indication (dBm or Watt scale), Standby mode, Fault indication
LAN	Serial management of device	Internet access

LAN

Description	Specifications	Option FGA	LED
FWD	Forward detected power		
REV	Reverse detected power		

TYPICAL PERFORMANCE PLOTS (FOR REFERENCE ONLY)

Output Power (Normal temp. +25±3°C)



Note:Air-cooled heat dissipation.